Illinois Refining Division

Marathon Petroleum Company

Robinson, Illinois 62454
Telephone 618/544-2121

CERTIFIED MAIL - RETURN RECEIPT REQUESTED
CERTIFIED NO. P 011 301 589

August 21, 1985

National Response Center "G-TGC-2"
400 7th Street S.W.
Washington, DC 20590

Attention: Duty Officer L. G. Weintraub

Re: CERCLA Comprehensive Environmental Response Compensation, and Liability Act ("CERCLA") Continuous Release Report

Dear Sirs:

Pursuant to our annual report to the National Response Center in August, 1983, this letter is sent to the National Response Center concerning the continuous application of hazardous substances onto the land treatment facility and into the waste storage impoundments located at Marathon Petroleum Company's Robinson Refinery, and to serve as the annual report under Section 103(f) of CERCLA.

Said land treatment facility ("landfarm") is in interim status under RCRA (ID No. ILD005476882) and is subject to all of the interim status standards, and ground water monitoring is conducted for the facility. (Please find attached: (1) Ground Water Analyses for 1984; (2) Potentiometric Surface Map, Figure 2; and (3) Ground Water Monitoring Well System Ground Water Elevations.)

Refinery wastes are applied to the soil at the landfarm to allow for biodegradation of organic components of the wastes and immobilization of inorganic constituents. On a routine periodic basis the applied waste material is disked and/or tilled into the soil and appropriate nutrients applied to aid in the biodegradation.

Approximately 7,719.2 tons of the following hazardous wastes are applied to the landfarm on an annual basis:

	Description of Waste	Amount
a)	HF Alkylation Sludge & Constant Boiling Mixture	222.1 Tons
b)	Dissolved Air Flotation Sludge	4353.6 Tons
c)	API Separator Sludge	211.5 Tons
d)	Oil Sludge Mixture	1654.9 Tons
e)	Slop Oil Emulsions	1229.0 Tons
f)	Spent Caustic	48.1 Tons

There are also three surface storage areas associated with the land treatment facility which are also under RCRA interim status (ID No. ILD005476882) and is subject to all interim status standards, and ground water monitoring is conducted for these facilities (please find attached: (1) Ground Water Analysis for 1984; (2) Potentiometric Surface Map; and (3) Ground Water Monitoring Well System Ground Water Elevations.) These surface storage areas are used to store wastes before landfarm application or other treatment. The designation and capabilities of these storage areas are as follows:

	Surface Storage Area	Capacity
1)	Dissolved Air Flotation Sludge Surface Impoundment	467,000 Gal.
2)	Oil Sludge Surface Impoundment	290,000 Gal.
3)	Bulk Waste Pit (Formerly Waste Pile Pad)	100 Cu.Ft.

Application rates to the landfarm are determined based primarily on the quantity and quality of waste to be treated, the physical and chemical properties of the soil, waste degradation rate, ground water monitoring data and the weather conditions. Wastes are not applied on days when weather conditions are not favorable (e.g., heavy rains) and are not applied during winter months because of frozen soil. Application of wastes to the soil occurs on a more or less daily basis during favorable weather conditions.

Unless we are informed by you as to the contrary, all future annual reports concerning the land facility shall be in writing and the surface storage areas and landfarm facilities will be considered a continuous release facility.

Sincerely,

David R. Saad
Environmental Coordinator

DRS:lmw
Attachment
cc: William Hedeman (USEPA)

MARCH 19, 1984

WELL B1-D

	Contract Lab	Marathon Lab
pH	6.5	6.77
pH	6.5	6.79
pH	6.5	6.78
pH	6.5	6.79
Spec. Cond., um/cm	590	408
Spec. Cond., um/cm	590	408
Spec. Cond., um/cm	590	408
Spec. Cond., um/cm	590	408
TOC, mg/l	1.6	25
TOC, mg/l	2.1	39
TOC, mg/l	2.2	18
TOC, mg/l	2.2	19
TOX, ug/l	48	--
TOX, ug/l	38	--
TOX, ug/l	36	--
TOX, ug/l	49	--
Chloride, mg/l	37	26
Fluoride, mg/l	.18	.25
Nitrate as N, mg/l	.29	2.1
Sulfate as SO_4, mg/l	16	18
Phenolics, mg/l	<.05	.002
Total Coliform, c/100	--	0
Gross Alpha, pCi/l	11	--
Gross Alpha, pCi/l	+/-3.0	--
Gross Beta, pCi/l	8.8	--
Gross Beta, pCi/l	+/-1.7	--
Radium 226, pCi/l	2.4	--
Radium 226, pCi/l	+/-.30	--
Radium 228, pCi/l	6.2	--
Radium 228, pCi/l	+/-1.10	--
Arsenic, ug/l	ND	<5
Barium, ug/l	38	--
Cadmium, ug/l	ND	<10
Chromium, ug/l	ND	<10
Lead, ug/l	BMDL	17
Mercury, ug/l	ND	<5
Selenium, ug/l	ND	--
Silver, ug/l	ND	<3
Iron, ug/l	BMDL	<10
Manganese, ug/l	100	80
Sodium, ug/l	57,000	46,000
Endrin, ug/l	<1.0	--
Lindane, ug/l	<2.0	--
Methoxychlor, ug/l	<50	--
Toxaphene, ug/l	<2.5	--
2, 4D, ug/l	<50	--
2,4,5-TP, ug/l	<5.0	--

JUNE 11, 1984

WELL B-1(D)

	CONTRACT LAB I	MARATHON LAB
pH	6.4	6.70
pH	6.5	6.70
pH	6.5	6.70
pH	6.5	6.70
Spec. Cond., um/cm	510	382
Spec. Cond., um/cm	490	383
Spec. Cond., um/cm	490	383
Spec. Cond., um/cm	500	382
TOC, mg/l	2.6	6.8
TOC, mg/l	3.0	20.3
TOC, mg/l	3.6	8.3
TOC, mg/l	2.9	7.2
TOX, ug/l	14	
TOX, ug/l	8	
TOX, ug/l	15	
TOX, ug/l	<5	
Chloride, mg/l	22	16
Fluoride, mg/l	160	<100
Nitrate as N, mg/l	<.1	1.6
Sulfate as SO_4, mg/l	--	17
Phenolics, mg/l	<.05	.004
Total Coliform, c/100	--	ND
Gross Alpha, pCi/l	<1.20	
Gross Beta, pCi/l	<1.00	
Arsenic, ug/l	ND	ND
Barium, ug/l	27	129
Cadmium, ug/l	ND	2.2
Chromium, ug/l	ND	.6
Lead, ug/l	BMDL	2.6
Mercury, ug/l	ND	
Selenium, ug/l	ND	ND
Silver, ug/l	ND	.5
Iron, ug/l	BMDL	20
Manganese, ug/l	94	130
Sodium, ug/l	42,000	44,000
Endrin, ug/l	ND	
Lindane, ug/l	ND	
Methoxychlor, ug/l	ND	
Toxaphene, ug/l	ND	
2, 4 D, ug/l	ND	
2,4,5-TP, ug/l	ND	

ETC ENVIRONMENTAL TESTING and CERTIFICATION

OCT 31, 1984

TABLE 1: QUANTITATIVE RESULTS and QUALITY ASSURANCE DATA

Ground Water Monitoring Metals, Pesticides and Herbicides (QR09)

Chain of Custody Data Required for ETC Data Management Summary Reports

ETC Sample No.	Company	Facility	Sample Point	Date	Time	Elapsed Hours
F4998	MARATHON PETROLEUM COMPANY	MPCROBGWM	WB1-D	840924	1400	

Parameter	Results		QC Replicate		QC Blank and Spiked Blank			QC Matrix Spike		
	Sample Concen. ug/l	MDL ug/l	First ug/l	Second ug/l	Blank Data ug/l	Concen. Added ug/l	% Recov	Unspiked Sample ug/l	Concen. Added ug/l	% Recov
Arsenic	ND	5								
Barium	33	5								
Cadmium	ND	5								
Chromium	ND	20								
Lead	BMDL	5								
Mercury	ND	.30								
Selenium	ND	5								
Silver	ND	8								
Iron	BMDL	100								
Manganese	70	5								
Sodium	48000	1000								
Endrin (GC)	ND	.10	ND	ND	ND	0.2	88	ND	0.2	100
Lindane (GC)	ND	2	ND	ND	ND	4.0	100	ND	4.0	107
Methoxychlor (GC)	ND	50	ND	ND	ND	100	118	ND	100	130
Toxaphene (GC)	ND	2.50	ND	ND	ND	5.0	92	ND	5.0	101
2,4-D	ND	50	ND	ND	ND	100	46	ND	100	54
2,4,5-TP (Silvex)	ND	5	ND	ND	ND	10	110	ND	10	130